

React props.children Concept

Notes



props.children is a special prop in React that allows components to render content passed between their opening and closing tags.

Basic Example



App.jsx

```
import First from './components/First';
function App() {
 return (
  <First>
   <h1>This is children</h1>
   This is a paragraph inside the child.
  </First>
 );
export default App;
```

```
First.jsx
```

```
import React from 'react';
```

```
const First = (props) ⇒ {
  return (
      <div>{props.children}</div>
  );
};
export default First;
```

Why is it Useful?

- Allows composition of components.
- Makes components more **reusable** and **flexible**.
- You can pass:
 - JSX elements
 - Strings
 - Other components
 - Fragments

X Common Use-Cases **→**

Use-Case	Description
Layout Components	Wrap page content with common layouts (cards, modals, wrappers).
Higher Order Components	Inject UI behavior or styling to children.
Nesting Dynamic Elements	Allow components to accept any child JSX.

Test it Yourself

```
<Wrapper>
<h2>Hello Priyansh</h2>
```

```
<button>Click Me</button>
</Wrapper>

const Wrapper = ({ children }) ⇒ {
  return <section className="box">{children}</section>;
};
```

O Common Mistake

```
<p1>This is wrong!</p1> // 🗙
```

✓ Correct Usage:

```
This is right!
```

HTML only supports , not <p1> , <p2> , etc.

Summary

Key Point	Description
props.children	Holds all the content inside a component's tag.
Benefit	Allows flexible component design and reusability.
Туре	props.children can be a string, JSX, or an array.
Best Practice	Always validate HTML tags (, not <p1>)</p1>

Pro Tip

You can also check if children exist before rendering:

```
{props.children && <div>{props.children}</div>}
```

Recommended Next Concepts

- React Composition
- Higher Order Components (HOC)
- Slot-based layout patterns

Bhai agar tu ye notes Notion me import kar raha hai, to ye format perfectly paste ho jayega. Chahe to mai PDF version bhi bana ke de sakta hu ya aur examples bhi add kar du.

Batao bhai!